

Attachment B – Leverage Documentation

Commonwealth of Massachusetts

AttBLeverageDocMA.pdf

**Appendix D**  
**PARTNERHSIP AGREEMENT**  
**Between Department of Housing and Community Development**  
**AND**  
**Executive Office of Energy and Environmental Affairs**  
**FOR**  
**Community Development Block Grant National Disaster Resilience Competition**  
**(CDBG-NDR)**

THIS AGREEMENT, entered this 23rd day of March, 2015 by and between the Department of Housing and Community Development (herein called the "Applicant") and Executive Office of Energy and Environmental Affairs (herein called the "Partner").

WHEREAS, the Applicant is applying for funds from the United States Department of Housing and Urban Development under the Disaster Relief Appropriations Act, 2013, Public Law 113-2, for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition; and

WHEREAS, the Applicant wishes to engage the Partner to assist the Applicant in using such funds if awarded;

NOW, THEREFORE, it is agreed between the parties hereto, contingent upon the award of CDBG-NDR funds to the Applicant, that;

**I. SUBRECIPIENT AGREEMENT/DEVELOPER AGREEMENT**

If the Applicant is awarded a CDBG-NDR grant from HUD, the Applicant/Grantee shall execute a written subrecipient agreement, developer agreement, contract, or other agreement, as applicable, with the Partner, for the use of the CDBG-NDR funds before disbursing any CDBG-NDR funds to the Partner. The written agreement must conform with all CDBG-NDR requirements and shall require the Partner to comply with all applicable CDBG-NDR requirements, including those found in Disaster Relief Appropriations Act, 2013 (Public Law 113-2), title I of the Housing and Community Development Act of 1974 (42 USC 5302 et seq.), the CDBG program regulations at 24 CFR part 570, the Notice of Funding Availability for HUD's National Community Development Block Grant Resilient Disaster Recovery Allocation and any subsequent published amendments (the CDBG-NDR NOFA), and the Applicant's CDBG-NDR NOFA application.

**II. SCOPE OF SERVICE**

**A. Activities**

The Partner will be responsible for using CDBG-NDR funds to carry out activities in a manner satisfactory to the Applicant and consistent with any standards required as a condition of providing these funds. Such use will be in compliance with the CDBG-NDR NOFA, the Applicant/Grantee's application for CDBG-NDR assistance and the Applicant/Grantee's Grant Agreement for CDBG-NDR.

**B. Project Schedule**

CDBG-NDR funding is subject to strict statutory deadlines for expenditure. In accordance with section 904(c) of title IX of the Disaster Relief Appropriations Act, 2013, a Grantee is required to expend all CDBG-NDR funds within two years of the date that HUD signs the grant agreement. Consistent with this duty, the Partner is required to complete all CDBG-NDR assisted activities within 24 months of the date that HUD signs the grant agreement.

### III. BUDGET

Upon request of the Applicant/Grantee the Partner shall submit for approval in a timely fashion a detailed budget as prescribed by the Applicant/Grantee. Any amendments subsequently proposed by the Partner to the budget must be approved in writing by the Applicant/Grantee.

### IV. SPECIAL CONDITIONS

There are no special conditions.

### V. SEVERABILITY

If any provision of this Agreement is held invalid, the remainder of the Agreement shall not be affected thereby and all other parts of this Agreement shall nevertheless be in full force and effect.

### VI. WAIVER

The Applicant's failure to act with respect to a breach by the Partner does not waive its right to act with respect to subsequent or similar breaches. The failure of the Applicant to exercise or enforce any right or provision shall not constitute a waiver of such right or provision.

### VII. ENTIRE AGREEMENT

This Agreement between the Partner and the Applicant for the use of CDBG-NDR funds, supersedes all prior or contemporaneous communications and proposals, whether electronic, oral, or written between the Partner and the Applicant/Grantee with respect to this Agreement. By way of signing this agreement, the Partner is bound to perform the agreements within this agreement or any HUD approved amendment thereof.

Date

3/26/15

The Parties have executed this agreement as of the date first written above.

[Applicant]

By

Chrystal Lornegay  
Title Undersecretary

[Partner]

By

[Signature]  
Title UNDERSECRETARY





*The Commonwealth of Massachusetts*  
*Executive Office of Energy and Environmental Affairs*  
*100 Cambridge Street, Suite 900*  
*Boston, MA 02114*

Charles D. Baker  
GOVERNOR

Karyn E. Polito  
LIEUTENANT GOVERNOR

Matthew A. Beaton  
SECRETARY

Tel: (617) 626-1000  
Fax: (617) 626-1181  
<http://www.mass.gov/eea>

March 23, 2015

Kathleen Baskin  
Executive Office of Energy and Environmental Affairs  
100 Cambridge Street, Suite 900  
Boston, MA 02114

Dear Ms. Baskin:

This letter is intended to outline funding that has been firmly committed by the Executive Office of Energy and Environmental Affairs' (EEA) and can be considered as leverage for the purposes of the Commonwealth of Massachusetts' Application to HUD's National Disaster Resilience Competition. Since September 17, 2014, EEA and its agencies have provided the following assistance through loans and grants to municipalities to promote resiliency to disasters and extreme events:

1. EEA Dam and Seawall Repair and Removal Fund- \$3,235,000
2. EEA's Dept of Energy Resources - Community Clean Energy Resiliency Grant- \$25,829,933
3. EEA's Office of Coastal Zone Management - Coastal Community Resilience Program- \$1,813,369
4. EEA's Office of Coastal Zone Management - Green Infrastructure Pilot Program- \$3,934,921

EEA commits to providing \$34,813,223 in funds for the programs listed above to support the CDBG-NDR proposal throughout the Commonwealth. This commitment includes \$2,790,099 in funds to support energy resiliency at Baystate Health, a regional hospital in the Springfield target area and \$35,262 to the Martha's Vineyard Shellfish Group, to demonstrate green infrastructure technology and develop ribbed mussel seed production to protect and restore salt marsh, benefitting the Oak Bluffs target area.

Project details are presented in the following pages.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Valanzola".

Michael Valanzola  
Chief Operating Officer

**1. Energy and Environmental Affairs (EEA) - Dam and Seawall Fund**

Since September 17, 2014, notices to proceed have been issued to 9 communities for a total current commitment of \$3,235,000.

**2. EEA's Department Of Energy Resources – Community Clean Energy Resiliency Grant**

Since September 17, 2014, total committed funding is \$25,829,933.

**3. EEA's Office of Coastal Zone Management - Coastal Community Resilience Program**

Since September 17, 2014, total committed funding is \$1,813,369.

**4. EEA's Office of Coastal Zone Management - Green Infrastructure Pilot Program**

Since September 17, 2014, total committed funding is \$3,934,921.

## 1. Dam and Seawall Fund - Recent Fund Commitments totals - \$3,235,000

This is a list of the commitments made by the Dam and Seawall Repair or Removal Program since September 2014. The Dam and Seawall Program provides financial assistance to local government units for critical infrastructure needs. Each project recognizes the need to plan for climate change and incorporates adaptation strategies into the proposed design as well as their ongoing operations and maintenance commitment. Notices to proceed have been issued to 9 communities for a total current commitment of \$3,235,000.

Entity	Notice to Proceed Date	Award	Project Summary
Attleboro	13 January 2015	\$160,000	Hoppin Hill Dam: reconstruction and fortification of drinking water supply infrastructure
Bellingham	19 September 2014	\$500,000	Old Mill Pond Dam: removal of deteriorated structure to prevent uncontrolled breach and flood danger during storm events; improvement to fish habitat
Braintree	3 February 2015	\$480,000	Great Pond Lower Reservoir Dam: reconstruction and fortification of drinking water supply infrastructure; improvement to fish passage
Canton	5 November 2014	\$335,000	Shepard Pond Dam: reconstruction and fortification of drinking water supply infrastructure
Gloucester	19 September 2014	\$1,000,000	Babson Reservoir Dam: reconstruction and fortification of drinking water supply infrastructure; enhances protection to low income (elderly) housing downstream
Holbrook	3 February 2015	\$150,000	Great Pond Lower Reservoir Dam: reconstruction and fortification of drinking water supply infrastructure; improvement to fish passage
Randolph	3 February 2015	\$370,000	Great Pond Lower Reservoir Dam: reconstruction and fortification of drinking water supply infrastructure; improvement to fish passage

Entity	Notice to Proceed Date	Award	Project Summary
Worcester	1 October 2014	\$240,000	Poor Farm Dam: removal of deteriorated structure to prevent uncontrolled breach and flood danger during storm events; improvement to fish habitat
<b>Total</b>		<b>\$3,235,000</b>	



## 2. Department of Energy Resources – Community Clean Energy Resiliency Grant

This grant program is focused on municipal resilience: protecting communities from interruptions in energy services due to severe climate events enhanced by the effects of climate change. Grants were awarded for communities to harden critical energy services using clean energy technology for critical facilities. Critical facilities, defined as buildings or structures where loss of electrical service would result in disruption of a critical public safety life sustaining function. Total committed funding is \$25,829,933.

Entity	Award Status	Award	Project Summary
Barnstable	12/29/2014; Award Notice Delivered	\$406,000	Cogeneration Plant at Barnstable Intermediate School: Islanding equipment for a 60kW CHP system to support town's emergency shelter with both electric and thermal power.
Berkley and Taunton	9/25/2014; Contract Delivered	\$1,455,000	Berkley/Taunton Community Microgrid
Boston	9/25/2014	\$1,320,000	Solar PV with Battery Storage for select Boston Community Centers: Solar and storage based islandable community shelters.
	12/29/2014	\$3,680,000	BMC Menino Campus CHP Plant Project: Engineering, controls, electrical switchgear and wiring required for a 2MW CHP system black start at BMC and interconnection of city emergency communications infrastructure system.
Cambridge	12/29/2014	\$851,868	Cambridge Water Supply Resilience: Battery storage to complement the planned 170kW solar PV system and other equipment to enable the system to island during an outage event.
Chelmsford	12/29/2014	\$74,941	McCarthy Middle School, Emergency Power Generation: Retrofit existing solar PV to provide emergency generation in island mode. Provide automated controls for grid and island mode.



Entity	Award Status	Award	Project Summary
Cape & Vineyard Electric Cooperative	12/29/2014	\$1,479,193	Dennis-Yarmouth High School Regional Shelter: Incorporation of two PV systems (641kW and 715kW, both VNM) with battery back-up, an energy management system and islanding equipment.
Greater Lawrence Sanitary District	12/29/2014; Award Notice Delivered	\$4,389,000	Organics to Energy Upgrade Project: GLSD is aiming to develop an islandable and black start capable self-sustaining wastewater treatment facility. Project funding will support different aspects of the following: biogas metering, monitoring, collection and safety improvements, high pressure transfer pumps, an outside waste acceptance and blending tank, two 1550 kW CHP units, electrical feeds from the main plan to the pump station as well as the addition of a fourth anaerobic digester.
	9/25/2014; Award Notice Delivered	\$611,000	Organics to Energy Upgrade Project: Islandable and black start capable self-sustaining wastewater treatment facility
Greenfield	12/29/2014; Award Notice Delivered	\$367,310	Greenfield Resiliency Plan for High School: Battery storage to complement the planned solar PV system and other equipment to enable the system to island during an outage event.
Holyoke	12/29/2014; Award Notice Delivered	\$1,013,794	Resiliency at Holyoke Facilities: Fire HQ, Mt. Tom Tower, Dean School. Battery storage to complement the planned solar PV system and other equipment to enable the system to island during an outage event.
MAPC - Beverly	12/29/2014; Award Notice Delivered	\$526,180	Energy Resiliency at Beverly Regional Cache Site: Battery storage to complement the planned solar PV system and other equipment to enable the system to island during an outage event.
MAPC - Wayland	12/29/2014; Award Notice Delivered	\$264,627	The MAPC Solar Resiliency Project: Islanding capability and advanced switches that will augment a proposed PV carport at the school that would allow solar to decrease the burden on the diesel back-up during an event.

Entity	Award Status	Award	Project Summary
Medford	12/29/2014; Award Notice Delivered	\$833,366	Medford Resiliency Project: Battery storage to complement the planned solar PV systems and other equipment to enable the system to island during an outage event at two sites in Medford.
Northampton	12/29/2014; Contract Executed	\$525,401	Batteries and PV Islanding Capability for Fire HQ: Solar and storage based islandable fire station, that incorporates existing backup generation for further resiliency.
	12/29/2014; Award Notice Delivered	\$3,078,960	Micro-grid with island-able PV at Smith Vocational and Agricultural High School, Northampton DPW and Cooley Dickinson Hospital. A microgrid with on-site renewable energy and battery storage to serve the interconnected facilities during an outage.
South Essex Sewerage District	9/25/2014; Contract Executed	\$700,000	Combined Heat and Power Facility: Islandable and black start capable combined heat and power facility at wastewater treatment facility.
Springfield	9/25/2014; Contract Executed	\$2,790,099	Baystate Health Cogeneration Project: Islandable and black start capable combined heat and power facility at regional hospital.
Sterling	12/29/2014; Award Notice Delivered	\$1,463,194	Implementing a Resiliency Plan through Clean Storage for a Municipal Microgrid: Battery storage project would deliver multiple layers of resiliency benefits to the Sterling community. First, it would be designed to ensure that the battery array is sized to allow for islanding of critical services within the Sterling police station and dispatch center. Second, the battery array will be used daily to provide real-time demand response, frequency regulation services, and off-peak to on-peak load shifting to increase the resiliency of Sterling's solar-reliant microgrid.
<b>Total</b>		<b>\$25,829,933</b>	



### 3. Coastal Zone Management - Coastal Community Resilience Program

This grant program is designed to reduce or eliminate community risk associated with coastal storms and sea level rise. Coastal communities can use the money to advance local efforts to adapt land use, infrastructure, policies, and programs to reduce the vulnerability of the built and natural environmental to changing environmental conditions. Total funding since September 17, 2014 is \$1,813,369.

Entity	Contract Start Date	Award	Project Summary
Provincetown	12/26/2014	\$175,125	Increasing Coastal Resiliency and Reducing Infrastructure Vulnerability by Mapping Inundation Pathways. Develop a high resolution, inundation pathway map of public and private infrastructure and resources, followed by ground-validation with GPS surveys. Examine vulnerabilities and develop recommendations for adaptive strategies.
Sandwich	12/26/2014	\$300,000	Analyze and Permit a Nearshore Sediment Borrow Source for Sandwich Town Beaches. Analyze and permit a neashore sediment borrow site to help address erosion issues at Sand Neck and Spring Hill beaches caused by an interruption of sediment transport from the Canal jetties.
Hull	12/26/2014	\$45,339	Climate Change Vulnerability Assessment and Adaptation Planning. Conduct a climate change vulnerability assessment of municipal infrastructure to develop targeted strategies aimed at reducing risks from flooding, increased storm intensity, sea level rise and storm surge.
Duxbury	12/26/2014	\$206,250	Coastal Processes Study and Resiliency Recommendations for Duxbury Beach and Bay. Develop hydrodynamic, wave, and sediment transport models to understand existing conditions, impacts of storms and sea level rise on the existing system, and evaluate restoration alternatives to expand habitat and improve long term resiliency.
Nantucket	1/30/2015	\$177,850	Empowering Coastal Communities to Prepare for and Respond to Sea Level Rise and Storm-Related Inundation: A Pilot Project for Nantucket. Design, permitting, and installation of three priority CMP Action Items; develop accurate island-wide GIS of storm-tide pathways; and, direct a strategic prioritization of remaining CMP action items and newly identified areas threatened by coastal hazards.

Entity	Contract Start Date	Award	Project Summary
Wareham	1/21/2015	\$93,750	Wastewater Infrastructure Vulnerability Assessment and Emergency Response Plan Related to Coastal Flooding and Climate Change. Complete a vulnerability assessment of the wastewater infrastructure relative to coastal flooding and climate change, develop an emergency management plan for the wastewater infrastructure, and recommend resilient improvements for vulnerable pump stations.
Swampscott	1/8/2015	\$70,100	Climate Change Coastal Resiliency and Flood Control Plan. Utilize innovative predictive modeling of sea level rise, storm surge, and changes in precipitation to understand risks associated with municipal infrastructure and natural resources. Identify capital improvement projects and strategies to protect Town's inhabitants, property, and infrastructure from flooding.
Weymouth	12/30/2014	\$131,400	Puritan Road Flood Mitigation and Ecological Resilience. Produce on-the-ground evaluations and informed design plans to retrofit municipal infrastructure for drainage and tidal-control purposes to function properly given higher sea levels, greater storm surges and more intense precipitation.
Winthrop	12/28/2014	\$350,000	Veterans Road Drainage Improvements Design. Design of drainage infrastructure improvements, dredging, and potentially enlarging Lewis Lake to increase stormwater storage capacity, and upgrade an existing tide gate to enhance tidal flushing.
Manchester-by-the-Sea	12/30/2014	\$154,950	Sawmill Brook Culvert and Green Infrastructure Analysis - Vulnerability and Required Capacity Under Climate Change. Evaluate the required capacity of existing culverts and bridges under different climate change and land use scenarios including implementing "green" stormwater BMPs and alternative flood storage solutions at key locations in the watershed.
Weymouth	10/15/2014	\$22,605	Fore River Avenue & Fort Point Road Seawall Reconstruction
Boston	9/22/2014	\$86,000	Designing for the Rising Tide: A Climate Change Preparedness Competition for Boston Harbor
<b>Total</b>		<b>\$1,813,369</b>	



#### 4. Coastal Zone Management - Green Infrastructure Pilot Program

This grant program provides financial and technical resources to advance the understanding and implementation of natural approaches to mitigating coastal erosion and flooding problems. Grants support the planning, feasibility assessment, design, permitting, construction, and monitoring and evaluation of green infrastructure projects that implement natural or living shoreline approaches. Total grant award since September 17, 2014 is \$3,934,921.

Entity	Contract Start Date	Award	Project Summary
Gloucester	1/9/2015	\$310,000	Little River Floodplain and Habitat Restoration. Re-establish a coastal floodplain by removing obsolete concrete structures and fill associated with the original operations of the WTP.
Chilmark	12/30/2014	\$280,000	Squibnocket Town Beach Expansion, Restoration. Planning, permitting, and construction related to the expansion and restoration of the Town's current section of Squibnocket barrier beach and habitat and a new, environmentally sound and accessible beach parking area.
Save Popponesset Bay, Inc.	2/20/2015	\$194,188	Improving the Coastal Resilience of Popponesset Spit and Bay, Mashpee. Evaluate and design a preferred alternative green infrastructure solution, including beach nourishment and dune restoration, for the publicly accessible beach on Popponesset Spit. Investigate potential sand sources for the nourishment.
Westport	1/21/2015	\$225,569	Knubble Dune Restoration and Public Access Project. Build and enhance approximately 500' of dune within the eastern portion of Beach Avenue to Knubble Rock to improve the resilience of the barrier spit to coastal storms and sea level rise and improve public access.
Plymouth	12/26/2014	\$279,080	Cobble Nourishment of Washover Areas at Plymouth Long Beach. Renourish eroded washover areas of Plymouth Long Beach with cobble to mitigate impacts of increased wave energy and erosion.
Scituate	1/21/2015	\$750,000	North Scituate Beach Nourishment. Restore ~2,800 ft. of public beach along Glades and Surfside Roads in North Scituate for recreation and improve resilience of seawall system to projected 25, 50, and 75 year sea level and storm surge increases.
Martha's Vineyard Shellfish Group, Inc.	9/22/2014	\$35,262	Demonstration of living shoreline technology & development of ribbed mussel seed production to protect & restore salt marsh in coastal MA

Entity	Contract Start Date	Award	Project Summary
Salem	1/21/2015	\$75,000	City of Salem Green Infrastructure Feasibility Assessment. Assess sites for coastal green infrastructure to enhance and protect the shoreline against sea level rise, storm surge, increased storm events and greater precipitation. Three sites will be selected for detailed analysis and conceptual design of green infrastructure enhancements.
Gosnold	9/22/2014	\$205,875	Improving the coastal resilience of Barges Beach on Cuttyhunk Island
Duxbury Beach Reservation, Inc.	9/22/2014	\$86,947	Cobble berm restoration, construction of nurseries for native beach grass cultivation & Japanese Knotweed eradication
Brewster	9/29/2014	\$155,000	Brewster green infrastructure project: Coastal resilience at Breakwater Beach
Scituate	9/29/2014	\$118,000	North Scituate Beach nourishment
Newbury	9/29/2014	\$145,000	Building capacity for resilience of human & natural communities in the dune system of Newbury
Plymouth	9/29/2014	\$75,000	Long Beach Restoration and Enhancement
Barnstable	10/30/2014	\$1,000,000	Shoreline stabilization of North Barnstable public beaches using bioengineering solutions
<b>Total</b>		<b>\$3,934,921</b>	